

1 7. Therapy makes a difference. Holding back therapy from a sick patient can make that
2 patient go backwards. Ms. Schiavo needs therapy. Any therapy will be helpful including
3 swallowing, physical, etc.

4 8. In regards to swallowing therapy, I have been informed that Ms. Schiavo is capable of
5 swallowing to some extent, including her saliva. With swallowing therapy Ms. Schiavo can
6 slowly be trained and then the feeding tube can be removed. I recommend that a swallowing
7 specialist or consultant see and examine Ms. Schiavo.

8 9. Also a measure of Ms. Schiavo's autonomic parameters, such as pulse and blood pressure
9 changes with certain stimuli, should be taken and that would show awareness.

10 10. I would also recommend a measurement of her spontaneous movements, as well as
11 testing her response to deep pain, which can show function. An evaluation should be done
12 periodically because life itself is a process.

13 11. Ms. Schiavo also definitely needs speech therapy. Language preservation shows higher
14 cortical function in and of itself. There are many levels to speech and this shows brain function
15 and overall awareness.

16 12. A Neuro-optomologist, an eye doctor sub-trained in neurology, should also examine Ms.
17 Schiavo.

18 13. I make myself available to examine and to consult Ms. Schiavo and evaluate the level of
19 her higher cortical function and determine what treatments should be given next.

20 I declare under the penalty of perjury under the laws of the State of New York that the
21 foregoing is true and correct.

22 Executed this 3 day of March 2005, in Huntington, New York.

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Beatrice C. Engstrand
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Declarant initials: BE

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CURRICULUM VITAE

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HOSPITAL AFFILIATES:

Huntington Hospital
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North Shore University Hospital, Manhasset, N.Y.
New York Medical College, St. Vincent's
Hospital and Medical Center of New York
Westchester County Medical Center

PRESENT POSITIONS:

Private Neurological Practice, October, 1992—Current
Assistant Professor of Neurology, New York Medical
College
Founder and President, Neuro-Degenerative Disease
Foundation
Advisory Council to Arts and Science, Lehigh University
Women's Study Advisory Board, Lehigh University
The Legislative Committee of the Suffolk County
Medical Society

FORMER POSITION:

Attending Neurologist, Metropolitan Hospital
New York City, July, 1988—September, 1992

LICENSED:

New York State—Medicine and Surgery

Diplomate of the American Board of Psychiatry and
Neurology

Board Certified in Neurology by the American Board of
Psychiatry and Neurology, Inc.

AWARDS AND HONORS:

Diplomat & Fellow American Academy of Neurology

Woman of The Year—*Distinction Magazine* 2003

Outstanding Young Women of America, 1997

Whos Who—Leading Professionals & Executives 1996

Soroptimist International of the Americas-Woman of Distinction Award

Regional and National White House Fellowship Finalist, 1992--93

Honorary Doctorate, Lehigh University, Oct., 1991

Paul Harris Fellow, 1991

Berner High School Hall of Fame, 1987

**Leopoldo Canales Award,
Excellence In Neurology 10/ 84**

The Beatrice Sterling Hollander, M.D., W.M.C. 1941 Memorial For Promise of Leadership, High Character, and Creativeness in My Profession, May, 1984

**International Who's Who of Professionals,
Year 2000**

Who's Who In America--Year 2000

Young Physician, New York State Representative

FOREIGN LANGUAGES:

Write, read, speak Spanish and Italian

EDUCATION:

**Neurology Resident,
SUNY Health Science Center, Brooklyn,
Downstate/Kings County Medical Center,
July, 1986--June, 1988**

**The National Hospital, Queens Square,
London, England--May, 1988
Movement Disorder with Professor
Q. David Marsden**

**Neurology Resident
The New York Hospital/Cornell Medical**

Center, New York, July, 1985--June, 1986

Resident, Medicine I
North Shore University Hospital, Manhasset, New York

The Medical College of Pennsylvania,
Graduation--June, 1984
Humanitarian Scholar and M.D.

Lehigh University, B.A.--October, 1982
Alfred G. Berner High School
Graduation--June, 1978 (Valedictorian--Class of 700)

BOOKS AND PUBLICATIONS: *A Gift of Healing--A Legacy of Hope*, June, 1990,
Wynwood Press

A May, 1984 article in the Lehigh Alumni Magazine,
A Gift of Healing Painfully Earned

"Cocaine-Related Ischemic Strokes," *Neurology*, 1989
(Suppl.):s 186, Engstrand, BC, Daras M, Tuckman
AJ, Koppel B.S., Schallop C, and Jindal SP

"Recurrent Seizures with Cocaine Abuse," presented at the
American College of Physicians in New York, 1990,
Harden C., M.D., Daras M., M.D., Engstrand B., M.D.,
Tuchman AJ, M.D.

"Lumbar Puncture In Aids Patients with CNS
Toxoplasmosis," presented at the American College of
Physicians in New York, 1990, Daras M., M.D.,
Tuckman AJ, M.D., Engstrand B, M.D.

Featured writer for the Internal Journal and for the
Alumnae Magazine, *MCP Today*--1980-1984.

Editor of High School paper--1977-78.

LECTURES:

Courage of the Mind, Body and Spirit, June 5, 1998, Canyon Ranch
Creative Healing: People Who Beat The Odds And You Can Too, June 6, 1998, Canyon Ranch
 Lectured Canyon Ranch Medical Staff on *Dementia*, June 6, 1998
 Central Presbyterian Church, Park Avenue, N.Y., N.Y.
 Lectured for the Huntington Hospital Diabetes Education Series on Neuropathy, May 15, 2003
 Featured Speaker for the Epilepsy Foundation of Long Island at their Annual Conference, November, 2003

MEMBERSHIPS:

AMA, AMSA, ACP, American Academy of Neurology, Brooklyn Neurological Society, Medical Society of the State Of New York, Alumnae Association of MCP, Cornell University, and Lehigh University, Diplomate of the National Board of Medical Examiners, Bioethics Committee of the Westchester County Medical Center, New York County Medical Society (P.R. Subcommittee), member of the Committee for ALS, The Women's Studies Advisory Board of Lehigh University and The Legislative Committee of the Suffolk County Medical Society.

OFFICES HELD:

President, Upper Manhattan Rotary
 Board member ALS (Amyotrophic Lateral Sclerosis), and Board of Veritas, 1991
 Chaired Bioethics' Subcommittee, Metropolitan Hospital
 Former member of the Medical Board at Metropolitan Hospital

PUBLIC RELATIONS:

C.B.S. *This Morning*, N.B.C. News, Cable News
Joe Franklin Show, W.E.V.D., *Ruth Jacobs Jewish Home Show*, W.F.T.R., Wisconsin, W.F.I.R., Virginia, W.C.C.O., Minnesota, W.F.D.V. *Human Medicine*, *People Magazine*, Cindy Adams' *New York Post* column and the July, 1995 issue of *Reader's Digest* article, *The White Sneakers*
 Featured Speaker--American Running and Fitness Association, November 11, 1995, New York Sheraton, Marathon Medical Seminar.

INTERESTS:

Opera (Former Patron of the Metropolitan Opera), Creative writing, public speaking, performing arts, foreign languages, animal behavior studies, travel, walking, swimming, boating, politics, antiques and interior decorating.

WOR RADIO SHOW:

Creator, Director and Host of the WOR 710 AM Radio talk show, *Neurology with Dr. Engstrand* each Sunday night from 10:30-11PM.

WLIE RADIO SHOW:

Creator, Director and Host of the WLIE 540AM radio talk show, *Evening Chats with Dr. Engstrand*, every Tuesday and Wednesday night 9:00--10 PM.